



0,81mm MHF CABLES MH081* SERIES

SPECIFICATIONS

For complete specifications see www.samtec.com?MH081

Outer Contact Material:
Au plated Phosphor Bronze
Center Contact Material:
Au plated Phosphor Bronze (MHX)
Au plated BeCu (SMA)
Insulator Material:
PBT (MHX)
PTFE (SMA)
Operating Temperature:
-40°C to +90°C
Voltage Rating:
170V max
Dielectric Withstanding Voltage:
200 Vrms
Frequency Range:
0-3 GHz
Contact Resistance:
Center Contact: 6mΩ max
Outer Contact: 2mΩ max
Insulator Resistance:
5,000 MΩ
Impedance:
50Ω
RoHS Compliant:
Yes

0,81mm Cable:
Impedance:
50Ω
Capacitance:
100pF/meter
Max Attenuation (cable only):
3.1dB @ 1GHz
Conductor Size:
36 AWG, (0,81mm) .032" dia.
Conductor Material:
Silver Plated Copper
Conductor Resistance:
1.40Ω/meter max
Insulator Diameter:
(0,4mm) .016"
Insulator Material:
FEP
Shield Material:
Silver Plated Copper
Jacket Material:
FEP
Jacket Diameter:
(0,81mm) .032" dia.
Jacket Temp Rating:
-10°C to +90°C
RoHS Compliant:
Yes

ALSO AVAILABLE

- Micro RF PCB connectors for Micro High Frequency RF
- Additional end connector combinations and overall lengths

Contact:
RFgroup@samtec.com

* MH081 Series was previously RF081 Series

MH1RP End Mates with:
RSP-122811-01

MH3RP End Mates with:
RSP-122811-02

REMOVAL TOOL

- MH1RP = RSP-122893-01
- MH3RP = RSP-122893-02

RF Cable Builder Quickly...Build a cable. Verify a part number. View print, Request price, Order sample...all online!
www.samtec.com/rfbuilder

Micro High Frequency RF (End 1) and MHF or SMA Bulkhead (End 2)

(0,81mm) .032" Diameter Cable

Mating PCB connectors available

STANDARD PART NUMBERS

-END 1	-END 2
-MH1RP	-MH1RP -01BJ1 -01BR1
-MH3RP	-MH3RP -01BJ1 -01BR1

MH081	END 1 CONNECTOR	END 2 CONNECTOR	OVERALL LENGTH
	-MH1RP = MHF1 Type Plug	-MH1RP = MHF1 Type Plug	-0050 = 1.97" (50mm)
	-MH3RP = MHF3 Type Plug	-MH3RP = MHF3 Type Plug	-0100 = 3.94" (100mm)
		-01BJ1 = SMA Bulkhead, Straight Jack	-0150 = 5.91" (150mm)
		-01BR1 = SMA Bulkhead, Straight Jack, Reverse Polarity	-0300 = 11.81" (300mm)
		-01SB1 = SMA Sealed Bulkhead, Straight Jack	
		-01SR1 = SMA Sealed Bulkhead, Straight Jack, Reverse Polarity	

END OPTIONS	
-MH1RP (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)	
-MH3RP (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)	
-01BJ1, -01BR1 & -01SB1, -01SR1 (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)	
XXXXXX = Stripped & Tinned (End 2 callout)	

STRIPPED & TINNED CALLOUT	
-XX XX XX	A B C
Where XX = length in mm (0.0mm to 9.9mm)	

XXXX = OAL (millimeters)

(2,69) .105 DIA

(1,64) .064 DIA

(2,10) .083

(6,96) .274

(1,20) .047

(4,70) .185

-MH1RP SHOWN

-MH3RP SHOWN

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM